AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions of claims in the application.

1. (Currently amended) A compound of the following formula:

$$T-(L-C)_m$$

wherein

T is a transportophore,

L is a bond or a linker having a molecular weight up to 240 dalton,

C is a non-antibiotic therapeutic agent, and

in which the transportophore has an immune selectivity ratio of at least 2, the transportophore is covalently bonded to the non-antibiotic therapeutic agent via the bond or the linker, the transportophore is an amphiphilic molecule having a pKa value of 6.5 to 9.5, and the compound has an immune selectivity ratio of at least 2.

- 2. (Cancelled)
- 3. (Original) The compound of claim 1, wherein the transportophore is a cyclic or heterocyclic molecule.
- 4. (Original) The compound of claim 3, wherein the cyclic or heterocyclic molecule has an attached sugar.
- 5. (Currently amended) The compound of claim 3, wherein the cyclic or herterocyclic heterocyclic molecule is a macrolactone or macroether.

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- 6. (Original) The compound of claim 5, wherein the macrolactone or macroether has an attached sugar.
- 7. (Currently amended) The compound of claim 3, wherein the cyclic or herterocyclic heterocyclic molecule is a macrolide or ketolide having an amino sugar.
- 8. (Currently amended) The compound of claim 7, wherein the cyclic or herterocyclic heterocyclic molecule is a macrolide having mono-, di-, or tri-basic groups.
 - 9. (Original) The compound of claim 1, wherein the compound is

$$R^{5}O$$
 OR^{4}
 OR^{6}
 R^{2}
 $N-R^{3}$
 OR^{6}
 OR^{6}
 OR^{6}
 OR^{7}
 O

wherein

$$X = N(R^{7})-CH_{2}$$

$$CH_{2}-N(R^{7})$$

$$C(=O)$$

$$C(=NOR^{8})$$

$$CH(OR^{9})$$

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```
CH(NR<sup>10</sup>R<sup>11</sup>)
         C(=NR^{12})
         OC(=O)
         C(=O)O
         independently linker
Y =
         C(=O)-
Z =
         CH(R^{16})
R^1 = H
          CH_3
         (C_2-C_{10})alkyl
         (C_1-C_{10})alkenyl
         (C<sub>1</sub>-C<sub>10</sub>)alkynyl
         (C_1-C_8)[(C_1-C_4)alkoxy]alkyl
         (C_1-C_8)[(C_1-C_4)alkoxy]alkenyl
         (C_6-C_{10})aryl-(C_1-C_5)alkyl
         (C_2-C_9)heteroaryl-(C_1-C_5)alkyl
         (C<sub>1</sub>-C<sub>4</sub>)alkyliden-NR<sup>18</sup>R<sup>19</sup>
          Y-R<sup>13</sup>
         C(=O)-Y-R^{15}
         C(=O)-R^{15}
R^2 =
         Η
          (1',2'-cis)-OH
         (1',2'-trans)-OH
          (1',2'-cis)-OR<sup>15</sup>
         (1',2'-trans)-OR<sup>15</sup>
         (1',2'-cis)-SH
         (1',2'-cis)-S-Y-R<sup>13</sup>
```

or the R¹ and R² bearing atoms are connected via a -OC(=O)CHR¹⁶- element

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$$R^{3} = H$$
 $C(=O)-Y-R^{15}$
 $C(=O)-R^{15}$
 $R^{4} = H$

$$R^{4} = H$$
 $C(=O)-Y-R^{15}$
 $C(=O)-R^{15}$

$$R^5 = H$$

or R⁴, R⁵ are connected by Z

$$R^6 = H$$
 CH_3

$$R^7 = H$$

$$CH_3$$

$$C(=O)-Y-R^{15}$$

$$C(=O)-R^{15}$$

$$R^8 = H$$

$$C(=O)-R^{17}$$

$$(C_1-C_8)[(C_1-C_4)alkoxy]alkyl$$

$$(C_1-C_8)[(C_1-C_4)alkoxy]alkenyl$$

$$(C_6-C_{10})$$
aryl- (C_1-C_5) alkyl

$$(C_2-C_9)$$
heteroaryl- (C_1-C_5) alkyl

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wherein alkyl, alkenyl, aryl, and heteroaryl groups are optionally substituted by one to five substituents selected independently from halogen, (C_1-C_4) alkyl, (C_1-C_4) alkenyl, (C_1-C_4) alkynyl, (C_3-C_7) cycloalkyl, (C_1-C_6) heterocycloalkyl, (C_6-C_{10}) aryl, (C_1-C_9) heteroaryl, (C_1-C_4) alkoxy, hydroxy, nitro, cyano, azido, mercapto, -NR¹⁸R¹⁹, R¹⁸C(=O)-, R¹⁸C(=O)O-, R¹⁸OC(=O)O-, R¹⁸OC(=O)O-

 $R^9 = H$

 (C_1-C_{10}) alkyl

(C₁-C₁₀)alkenyl

(C₁-C₁₀)alkynyl

 $(C_1-C_8)[(C_1-C_4)alkoxy]alkyl$

 $(C_1-C_8)[(C_1-C_4)alkoxy]alkenyl$

 (C_6-C_{10}) aryl- (C_1-C_5) alkyl

 (C_2-C_9) heteroaryl- (C_1-C_5) alkyl

wherein alkyl, alkenyl, aryl, and heteroaryl groups are optionally substituted by one to five substituents selected independently from halogen, (C_1-C_4) alkyl, (C_1-C_4) alkenyl, (C_1-C_4) alkynyl, (C_3-C_7) cycloalkyl, (C_1-C_6) heterocycloalkyl, (C_6-C_{10}) aryl, (C_1-C_9) heteroaryl, (C_1-C_4) alkoxy, hydroxy, nitro, cyano, azido, mercapto, -NR¹⁸R¹⁹, R¹⁸C(=O)-, R¹⁸C(=O)O-, R¹⁸OC(=O)O-, R¹⁸OC(=O)NH-, R¹⁸R¹⁹NC(=O)-and R¹⁸OC(=O)-

 $R^{10}, R^{11} =$

independently H

 (C_1-C_{10}) alkyl

(C₁-C₁₀)alkenyl

 (C_1-C_{10}) alkynyl

 $(C_1-C_8)[(C_1-C_4)alkoxy]alkyl$

 $(C_1-C_8)[(C_1-C_4)alkoxy]alkenyl$

 (C_6-C_{10}) aryl- (C_1-C_5) alkyl

 (C_2-C_9) heteroaryl- (C_1-C_5) alkyl

(C₁-C₄)alkyliden-NR¹⁸R¹⁹

or $R^{10} = H$ and $R^{11} = -Y - R^{13}$

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$$C(=O)-Y-R^{15}$$
, $-C(=O)-R^{15}$

 $R^{12} = H$

 (C_1-C_{10}) alkyl

(C₁-C₁₀)alkenyl

(C₁-C₁₀)alkynyl

 $(C_1-C_8)[(C_1-C_4)alkoxy]alkyl$

 $(C_1-C_8)[(C_1-C_4)alkoxy]alkenyl$

 (C_6-C_{10}) aryl- (C_1-C_5) alkyl

 (C_2-C_9) heteroaryl- (C_1-C_5) alkyl

(C₁-C₄)alkyliden-NR¹⁸R¹⁹

, Y-R¹³

R¹³= independently, therapeutic agent

R¹⁵= independently, therapeutic agent

 $R^{16} = H$

CH₃

(C2-C10)alkyl

(C₁-C₁₀)alkenyl

 (C_1-C_{10}) alkynyl

 $(C_1-C_8)[(C_1-C_4)alkoxy]alkyl$

 $(C_1\text{-}C_8)[(C_1\text{-}C_4)alkoxy]alkenyl$

 $(C_6\hbox{-}C_{10}) aryl\hbox{-}(C_1\hbox{-}C_5) alkyl$

 $(C_2\text{-}C_9)$ heteroaryl- $(C_1\text{-}C_5)$ alkyl

(C₁-C₄)alkyliden-NR¹⁸R¹⁹

 $Y-R^{13}$,

 $R^{17} = O-R^{20}$ -aryl

optionally substituted by -X'-Y- therapeutic agent, X'-therapeutic agent

wherein X' is S, O, or NH

 R^{18} , R^{19} = independently H

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(C₁-C₁₀)alkyl

(C₁-C₁₀)alkenyl

 (C_1-C_{10}) alkynyl

 $(C_1\text{-}C_8)[(C_1\text{-}C_4)alkoxy]alkyl$

 $(C_1\hbox{-} C_8)[(C_1\hbox{-} C_4)alkoxy]alkenyl$

 (C_6-C_{10}) aryl- (C_1-C_5) alkyl

 $(C_2\text{-}C_9)$ heteroaryl- $(C_1\text{-}C_5)$ alkyl

 R^{20} = independently,

Halogen

 $(C_1-C_3)alkyl$

 NO_2

CN

 OCH_3

 $N(CH_3)_2$

 N_3

SH

 $S(C_1-C_4)$ alkyl.

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10. (Currently amended) The compound of claim 1, wherein the compound is

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$$R^{5}$$
 R^{6}
 R^{2}
 R^{3a}
 R^{3a}

wherein:

$$X = N(R^{7})-CH_{2}$$

$$CH_{2}-N(R^{7})$$

$$C(=O)$$

$$C(=NOR^{8})$$

$$CH(OR^{9})$$

$$CH(NR^{10}R^{11})$$

$$C(=NR^{12})$$

$$OC(=O)$$

$$C(=O)$$

$$C(=O)O$$

$$Y = independently, linker$$

$$Z = C(=O)-$$

CH(R¹⁶)-

 CH_3

 $R^1 = H$

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(C2-C10)alkyl

(C₁-C₁₀)alkenyl

(C₁-C₁₀)alkynyl

 $(C_1-C_8)[(C_1-C_4)alkoxy]alkyl$

 $(C_1\text{-}C_8)[(C_1\text{-}C_4)alkoxy]alkenyl$

 (C_6-C_{10}) aryl- (C_1-C_5) alkyl

 (C_2-C_9) heteroaryl- (C_1-C_5) alkyl

(C₁-C₄)alkyliden-NR¹⁸R¹⁹

Y-R¹³

 $C(=O)-Y-R^{15}$

 $C(=O)-R^{15}$

 $S(=O)_k(C_1-C_{10})alkyl$

 $S(=O)_k(C_1-C_{10})$ alkenyl

 $S(=O)_k(C_1-C_{10})$ alkynyl

 $S(=O)_k(C_6 C_6-C_{10})$ aryl

 $S(=O)_k(C_2-C_9)$ heteroaryl

 $S(=O)_{k}-Y-R^{15}$

 $S(=O)_k-R^{15}$

wherein k is 0, 1 or 2 and alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl and heteroaryl can optionally be substituted by one to three halogen, cyano, hydroxy, (C_1-C_4) alkyloxy, nitro, (C_1-C_6) alkyl, (C_1-C_6) alkenyl, (C_1-C_6) alkynyl, (C_3-C_7) cycloalkyl, (C_1-C_6) heterocycloalkyl, (C_6-C_{10}) aryl, (C_1-C_9) heteroaryl, $NR^{18}R^{19}$, $R^{18}C(=O)$ -, $R^{18}C(=$

$$R^2 = H$$

(1',2'-cis)-OH

(1',2'-trans)-OH

 $(1',2'-cis)-OR^{15}$

(1',2'-trans)-OR¹⁵

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(1',2'-cis)-SH (1',2'-cis)-S-Y-R¹³

or the R¹ and R² bearing atoms are connected via a -OC(=O)CHR¹⁶- element

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æ

 $R^{3a}, R^{3b} =$

independently H

 R^1

OH

 OR^{11}

 $NR^{10}R^{11}$

or $R^{3a} = R^{3b} = (=0)$,

 $(=NR^1)$

O(CH₂)_kO- wherein k is 2 or 3

 $R^4 = H$

 $C(=O)-Y-R^{15}$

 $C(=O)-R^{15}$

 $R^5 = H^-$

or R⁴, R⁵ are connected by -Z-

 $R^6 = H$

 CH_3

 $R^7 = H$

CH₃

Y-R¹³

 $C(=O)-Y-R^{15}$

 $C(=O)-R^{15}$

 $R^8 = H$

 $Y-R^{13}$

 $C(=O)-R^{17}$

 $R^9 = H$

(C₁-C₁₀)alkyl

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(C₁-C₁₀)alkenyl

(C₁-C₁₀)alkynyl

 $(C_1-C_8)[(C_1-C_4)alkoxy]alkyl$

 $(C_1-C_8)[(C_1-C_4)alkoxy]alkenyl$

 (C_6-C_{10}) aryl- (C_1-C_5) alkyl

 (C_2-C_9) heteroaryl- (C_1-C_5) alkyl

 R^{10} , R^{11} = independently H

 (C_1-C_{10}) alkyl

(C₁-C₁₀)alkenyl

(C₁-C₁₀)alkynyl

(C₃-C₁₀)cycloalkyl

(C₁-C₉)heterocycloalkyl

 (C_6-C_{10}) aryl

(C₂-C₉)heteroaryl

wherein alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl, heteroaryl are optionally substituted by one to three halogen, cyano, hydroxy, (C_1-C_4) alkyloxy, nitro, (C_1-C_6) alkyl, (C_1-C_6) alkenyl, (C_1-C_6) alkynyl, (C_3-C_7) cycloalkyl, (C_1-C_6) heterocycloalkyl, (C_6-C_{10}) aryl, (C_1-C_6) heteroaryl, $NR^{18}R^{19}$, $R^{18}C(=O)$ -, $R^$

or
$$R^{10} = H$$
 and

$$R^{11} = Y - R^{13}$$

 $C(=O)-Y-R^{15}$

 $C(=O)-R^{15}$

 $S(=O)_k(C_1-C_{10})alkyl$

 $S(=O)_k(C_1-C_{10})$ alkenyl

 $S(=O)_k(C_1-C_{10})alkynyl$

 $S(=O)_k(C_6 C_6-C_{10})$ aryl

 $S(=O)_k(C_2-C_9)$ heteroaryl

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$$S(=O)_k-Y-R^{15}$$

 $S(=O)_k-R^{15}$

wherein k is 0, 1 or 2 and alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl and heteroaryl can be substituted as defined above[[.]]

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$$R^{12}= H$$

$$(C_1-C_{10})alkyl$$

$$(C_1-C_{10})alkenyl$$

$$(C_1-C_{10})alkynyl$$

$$(C_1-C_8)[(C_1-C_4)alkoxy]alkyl$$

$$(C_1-C_8)[(C_1-C_4)alkoxy]alkeny$$

 $(C_1-C_8)[(C_1-C_4)alkoxy]alkenyl$

$$(C_6\hbox{-}C_{10}) aryl\hbox{-}(C_1\hbox{-}C_5) alkyl$$

 (C_2-C_9) heteroaryl- (C_1-C_5) alkyl

$$Y-R^{13}$$

R¹³= independently, therapeutic agent

 $R^{15} =$ independently, therapeutic agent

$$R^{16} = H$$

 CH_3

 (C_2-C_{10}) alkyl

 (C_1-C_{10}) alkenyl

 (C_1-C_{10}) alkynyl

 $(C_1-C_8)[(C_1-C_4)alkoxy]alkyl$

 $(C_1-C_8)[(C_1-C_4)alkoxy]alkenyl$

 (C_6-C_{10}) aryl- (C_1-C_5) alkyl

 (C_2-C_9) heteroaryl- (C_1-C_5) alkyl

(C₁-C₄)alkyliden-NR¹⁸R¹⁹

 $Y-R^{13}$

$$R^{17}$$
= O- R^{20} -aryl

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optionally substituted by -X'-Y-a therapeutic agent, X'-a therapeutic agent

wherein X' is

S, O, NH

 R^{18} , R^{19} =

independently H

 (C_1-C_{10}) alkyl

(C₁-C₁₀)alkenyl

(C₁-C₁₀)alkynyl

 $(C_1\text{-}C_8)[(C_1\text{-}C_4)alkoxy]alkyl$

 $(C_1-C_8)[(C_1-C_4)alkoxy]alkenyl$

 (C_6-C_{10}) aryl- (C_1-C_5) alkyl

 (C_2-C_9) heteroaryl- (C_1-C_5) alkyl

 R^{20} = independently,

Halogen

(C₁-C₃)alkyl

 NO_2

CN

OCH₃

 $N(CH_3)_2$

 N_3

SH

 $S(C_1-C_4)$ alkyl.

11. (Withdrawn) The compound of claim 1, wherein the compound is

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wherein

$$X = N(R^{9})-CH_{2}$$
 $CH_{2}-N(R^{9})$
 $C(=O)$
 $C(=NOR^{10})$
 $C(OR^{11})H$
 $CH(NR^{12}R^{13})$
 $C(=NR^{14})$
 $OC(=O)$
 $C(=O)O$

Y = independently, linker

$$R^{1} = OR^{17}$$
 $NR^{17}R^{18}$

or R^1 is connected to the oxygen bearing R^4 or R^5 forming a lactone or is connected to a suitable substituent in R^2 forming a lactone or lactam,

$$R^2 = O-2$$
-cladinosyl ($\frac{1}{2}$

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```
H

X', wherein X'= halogen
azido
nitro
cyano
OR^{17}
OR^{22}
NR^{17}R^{18}
SR^{17}(C_1-C_6)alkyl
(C_1-C_6)alkenyl
(C_1-C_6)alkynyl
(C_3-C_{10})cycloalkyl
(C_1-C_9)heterocycloalkyl
(C_6-C_{10})aryl
(C_1-C_9)heteroaryl
```

wherein alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl, heteroaryl groups are optionally substituted by one to five substituents selected independently from halogen, (C₁-C₄)alkyl, (C₁-C₄)alkenyl, (C₁-C₄)alkynyl, (C₃-C₇)cycloalkyl, (C₁-C₆)heterocycloalkyl, (C₆-C₁₀)aryl, (C₁-C₉)heteroaryl, (C₁-C₄)alkoxy, hydroxy, nitro, cyano, azido, mercapto, R²⁰R²¹N-, R²⁰C(=O)-, R²⁰C(=O)-, R²⁰OC(=O)-, R²⁰NHC(=O)-, R²⁰C(=O)NH-, R²⁰R²¹NC(=O)-, and R²⁰OC(=O)O-, -Y-therapeutic agent or –therapeutic agent,

$$\begin{split} R^3 = & \quad H \\ & \quad (C_1\text{-}C_6)alkyl \\ & \quad (C_1\text{-}C_6)alkenyl \\ & \quad (C_1\text{-}C_6)alkynyl \\ & \quad (C_3\text{-}C_{10})cycloalkyl \\ & \quad (C_1\text{-}C_9)heterocycloalkyl \\ & \quad (C_6\text{-}C_{10})aryl \end{split}$$

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(C₁-C₉)heteroaryl

wherein alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl, heteroaryl groups are optionally substituted by one to five substituents selected independently from halogen, (C_1-C_4) alkyl, (C_1-C_4) alkynyl, (C_3-C_7) cycloalkyl, (C_1-C_6) heterocycloalkyl, (C_6-C_{10}) aryl, (C_1-C_6) heteroaryl, (C_1-C_4) alkoxy, or $R^{20}R^{21}N$ -

 (C_1-C_9) heteroaryl

wherein alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl, heteroaryl groups are optionally substituted by one to five substituents selected independently from halogen, (C_1-C_4) alkyl, (C_1-C_4) alkynyl, (C_3-C_7) cycloalkyl, (C_1-C_6) heterocycloalkyl, (C_6-C_{10}) aryl, (C_1-C_9) heteroaryl, (C_1-C_4) alkoxy, hydroxy, nitro, cyano, azido, mercapto, $R^{20}R^{21}N$ -, $R^{20}C(=0)$ -, $R^{20}C(=0)$ -, $R^{20}C(=0)$ -, $R^{20}C(=0)$ -, $R^{20}C(=0)$ -, $R^{20}C(=0)$ -, and $R^{20}OC(=0)$ -, -Y-therapeutic agent or –therapeutic agent,

or R⁴ is connected to a suitable R² containing a N or a O by -C(=O), S(=O)_n

wherein n = 1 or 2, $-CR^{20}R^{17}$ -, CR^{20} (-Y- therapeutic agent)-, $-CR^{20}$ (- therapeutic agent)-forming in dependence of R^2 a 6 or 7-membered ring,

$$R^5 = R^{20}$$
 $C(=O)R^{20}$

or R^4 , R^5 are connected by C(=O), S(=O)_n wherein n = 1 or 2, -CR²⁰R¹⁷-, CR²⁰(-Y-therapeutic agent)-, -CR²⁰(-therapeutic agent)-

$$R^{6}, R^{8} = independently H$$

$$(C_{1}-C_{6})alkyl$$

$$(C_{1}-C_{6})alkenyl$$

$$(C_{1}-C_{6})alkynyl$$

$$(C_{3}-C_{10})cycloalkyl$$

$$(C_{1}-C_{9})heterocycloalkyl$$

$$(C_{6}-C_{10})aryl$$

$$(C_{1}-C_{9})heteroaryl$$

wherein alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl, heteroaryl groups are optionally substituted by one to five substituents selected independently from halogen, (C_1-C_4) alkyl, (C_1-C_4) alkenyl, (C_1-C_4) alkynyl, (C_3-C_7) cycloalkyl, (C_1-C_6) heterocycloalkyl, (C_6-C_{10}) aryl, (C_1-C_9) heteroaryl, (C_1-C_4) alkoxy, hydroxy, nitro, cyano, azido, mercapto, $R^{20}R^{21}N$ -, $R^{20}C(=O)$ -, and $R^{20}C(=O)$ -, $R^{20}C(=O)$ -,

or R^6 , R^8 = independently -C(=O) R^{17} , -Y- therapeutic agent, - therapeutic agent, -S(=O) $2R^{17}$ providing R^{17} is not hydrogen, -C(=O) $NR^{17}R^{18}$,

$$R^7 = H$$
 $(C_1-C_6)alkyl$
 $(C_1-C_6)alkenyl$
 $(C_1-C_6)alkynyl$
 $(C_3-C_{10})cycloalkyl$
 $(C_1-C_9)heterocycloalkyl$

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 (C_6-C_{10}) aryl

 (C_1-C_9) heteroaryl

wherein alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl, heteroaryl groups are optionally substituted by one to five substituents selected independently from halogen, (C_1-C_4) alkyl, (C_1-C_4) alkenyl, (C_1-C_4) alkynyl, (C_3-C_7) cycloalkyl, (C_1-C_6) heterocycloalkyl, (C_6-C_{10}) aryl, (C_1-C_9) heteroaryl, (C_1-C_4) alkoxy, hydroxy, nitro, cyano, azido, mercapto, $R^{20}R^{21}N$ -, $R^{20}C(=O)$ -, and $R^{20}C(=O)$ -, -Y-therapeutic agent or –therapeutic agent,

or two of each R^6 , R^7 , R^8 are connected by -C(=O), $S(=O)_n$ wherein n = 1 or 2, $-CR^{20}R^{17}$, $CR^{20}(-Y$ - therapeutic agent)-, $-CR^{20}(-X)$ - therapeutic agent)-,

 $R^9 = H$.

 CH_3

Y-therapeutic agent

therapeutic agent

 (C_1-C_6) alkyl

(C₁-C₆)alkenyl

 (C_1-C_6) alkynyl,

wherein alkyl, alkenyl, alkynyl groups are optionally substituted by one to five substituents selected independently from halogen, (C_1-C_4) alkyl, (C_1-C_4) alkenyl, (C_1-C_4) alkynyl, (C_3-C_7) cycloalkyl, (C_1-C_6) heterocycloalkyl, (C_6-C_{10}) aryl, (C_1-C_9) heteroaryl, (C_1-C_4) alkoxy, hydroxy, nitro, cyano, azido, mercapto, $R^{20}R^{21}N$ -, $R^{20}C(=0)$ -, $R^{20}C(=0)$ 0-, $R^{20}OC(=0)$ -, $R^{20}NHC(=0)$ -, $R^{20}C(=0)$ -, and $R^{20}OC(=0)$ 0-, -Y- therapeutic agent or –therapeutic agent,

$$R^{10} = C(=O)$$
-aryl

therapeutic agent,

H

 (C_1-C_6) alkyl

(C₁-C₆)alkenyl

(C₁-C₆)alkynyl,

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wherein alkyl, alkenyl, alkynyl groups are optionally substituted by one to five substituents selected independently from halogen, (C_1-C_4) alkyl, (C_1-C_4) alkenyl, (C_1-C_4) alkynyl, (C_3-C_7) cycloalkyl, (C_1-C_6) heterocycloalkyl, (C_6-C_{10}) aryl, (C_1-C_9) heteroaryl, (C_1-C_4) alkoxy, hydroxy, nitro, cyano, azido, mercapto, $R^{20}R^{21}N$ -, $R^{20}C(=O)$ -, $R^{20}C(=O)$ O-, $R^{20}OC(=O)$ -, $R^{20}NHC(=O)$ -, $R^{20}C(=O)$ -, and $R^{20}OC(=O)$ -, -Y-therapeutic agent or – therapeutic agent

$$R^{11}$$
= H (C_1-C_6) alkyl (C_1-C_6) alkenyl (C_1-C_6) alkynyl,

wherein alkyl, alkenyl, alkynyl groups are optionally substituted by one to five substituents selected independently from halogen, (C_1-C_4) alkyl, (C_1-C_4) alkenyl, (C_1-C_4) alkynyl, (C_3-C_7) cycloalkyl, (C_1-C_6) heterocycloalkyl, (C_6-C_{10}) aryl, (C_1-C_9) heteroaryl, (C_1-C_4) alkoxy, hydroxy, nitro, cyano, azido, mercapto, $R^{20}R^{21}N$ -, $R^{20}C(=O)$ -, $R^{20}C(=O)$ -, $R^{20}OC(=O)$ -, $R^{20}NHC(=O)$ -, $R^{20}C(=O)$ -,

$$R^{12}$$
, R^{13} = independently H
 (C_1-C_6) alkyl
 (C_1-C_6) alkenyl
 (C_1-C_6) alkynyl
 (C_3-C_{10}) cycloalkyl
 (C_1-C_9) heterocycloalkyl
 (C_6-C_{10}) aryl
 (C_1-C_9) heteroaryl,

wherein alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl, heteroaryl groups are optionally substituted by one to five substituents selected independently from halogen, (C_1-C_4) alkyl, (C_1-C_4) alkenyl, (C_1-C_4) alkynyl, (C_3-C_7) cycloalkyl, (C_1-C_6) heterocycloalkyl, (C_6-C_{10}) aryl, (C_1-C_9) heteroaryl, (C_1-C_4) alkoxy, hydroxy, nitro, cyano, azido, mercapto, $R^{20}R^{21}N$ -, $R^{20}C(=0)$ -,

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 $R^{20}C(=O)O-$, $R^{20}OC(=O)-$, $R^{20}NHC(=O)-$, $R^{20}C(=O)NH-$, $R^{20}R^{21}NC(=O)-$, $R^{20}OC(=O)O-$, -Y-therapeutic agent or –therapeutic agent,

or R^{12} , R^{13} = independently -C(=O) R^{17} , -Y- therapeutic agent, - therapeutic agent, -S(=O) $_2R^{17}$ providing R^{17} is not hydrogen, -C(=O) $NR^{17}R^{18}$

 R^{14} = therapeutic agent

H

 (C_1-C_6) alkyl

(C₁-C₆)alkenyl

(C₁-C₆)alkynyl

(C₃-C₁₀)cycloalkyl

(C₁-C₉)heterocycloalkyl

 (C_6-C_{10}) aryl

(C₁-C₉)heteroaryl

wherein alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl, heteroaryl groups are optionally substituted by one to five substituents selected independently from halogen, (C_1-C_4) alkyl, (C_1-C_4) alkenyl, (C_1-C_4) alkynyl, (C_3-C_7) cycloalkyl, (C_1-C_6) heterocycloalkyl, (C_6-C_{10}) aryl, (C_1-C_9) heteroaryl, (C_1-C_4) alkoxy, hydroxy, nitro, cyano, azido, mercapto, $R^{20}R^{21}N$ -, $R^{20}C(=O)$ -, $R^{$

$$R^{15} = H$$

 $C(=0)R^{17}$

Y- therapeutic agent,

therapeutic agent,

S(=O)₂R¹⁷ providing R¹⁷ is not hydrogen

 $C(=O)NR^{17}R^{18}$

 (C_1-C_6) alkyl

(C₁-C₆)alkenyl

 (C_1-C_6) alkynyl

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 (C_3-C_{10}) cycloalkyl (C_1-C_9) heterocycloalkyl (C_6-C_{10}) aryl (C_1-C_9) heteroaryl,

wherein alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl, heteroaryl groups are optionally substituted by one to five substituents selected independently from halogen, (C_1-C_4) alkyl, (C_1-C_4) alkenyl, (C_1-C_4) alkynyl, (C_3-C_7) cycloalkyl, (C_1-C_6) heterocycloalkyl, (C_6-C_{10}) aryl, (C_1-C_9) heteroaryl, (C_1-C_4) alkoxy, hydroxy, nitro, cyano, azido, mercapto, $R^{20}R^{21}N$ -, $R^{20}C(=O)$ -, and $R^{20}C(=O)$ -, -Y-therapeutic agent or –therapeutic agent,

$$R^{16} = H$$

$$OR^{17}$$

$$OR^{22}$$

$$R^{17}, R^{18} = independently H$$

$$(C_1-C_6)alkyl$$

$$(C_1-C_6)alkenyl$$

$$(C_1-C_6)alkynyl$$

$$(C_3-C_{10})cycloalkyl$$

$$(C_1-C_9)heterocycloalkyl$$

$$(C_6-C_{10})aryl$$

$$(C_1-C_9)heteroaryl$$

wherein alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl, heteroaryl groups are optionally substituted by one to five substituents selected independently from halogen, (C_1-C_4) alkyl, (C_1-C_4) alkenyl, (C_1-C_4) alkynyl, (C_3-C_7) cycloalkyl, (C_1-C_6) heterocycloalkyl, (C_6-C_{10}) aryl, (C_1-C_9) heteroaryl, (C_1-C_4) alkoxy, hydroxy, nitro, cyano, azido, mercapto, $R^{20}R^{21}N$ -, $R^{20}C(=0)$ -, and $R^{20}C(=0)$ -, $R^{20}C(=0)$ -, and $R^{20}C(=0)$ -, $R^{20}C(=0)$

or provided that connected to a nitrogen, R^{17} , R^{18} may form a cyclic structure of 4 to 7 members (including the nitrogen). R^{17} and R^{18} then can represent a fragment from the type of - $[C(AB)]_m$ - Ξ_n - $[C(DE)]_o$ - Ψ_p - $[C(GJ)]_q$ wherein m, n, o, p and q independently are 0, 1, 2, 3, 4, 5, or 6, Ξ and Ψ independently are -O-, -S-, -NK- and A, B, D, E, G, J, and K independently are hydrogen, $(C_1$ - C_4) alkyl, $(C_1$ - C_4) alkenyl, $(C_1$ - C_4) alkynyl, $(C_3$ - C_7) cycloalkyl, $(C_1$ - C_6) heterocycloalkyl, $(C_6$ - C_{10}) aryl, $(C_1$ - C_9) heteroaryl, $(C_1$ - C_4) alkoxy, hydroxy, nitro, cyano, azido, mercapto, $R^{20}R^{21}N$ -, $R^{20}C(=O)$ -, $R^{20}C(=O)$ -, $R^{20}OC(=O)$ -, $R^{20}OC(=O)$ -, $R^{20}OC(=O)$ -, $R^{20}OC(=O)$ -, and $R^{20}OC(=O)$ O-

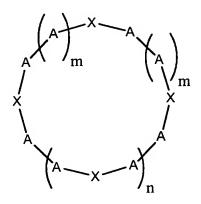
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$$R^{20}$$
, R^{21} = independently H
$$(C_1 - C_6)$$
 alkyl

$$R^{22} = C(=O)R^{17}$$

Y- therapeutic agent
therapeutic agent,
 $S(=O)_2R^{17}$ providing R^{17} is not hydrogen, $-C(=O)NR^{17}R^{18}$.

12. (Withdrawn) The compound of claim 1, wherein the compound is



wherein:

m = independently, 0, 1, 2, 3

n = 0 - 7

X = independently, O

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                  S
                  Se
                  NR^1
                  PR^1
with the proviso, that at least one X = -NR^1-
                  independently, CH<sub>2</sub>
A =
                  CHR<sup>2</sup>
                  CR^2R^3
                  C(=O)
with the proviso, that at least one X = -NR^1- is not an amide
R^1 =
                  independently, H
                  (C<sub>1</sub>-C<sub>10</sub>)alkyl, optionally substituted by fluoro, cyano, R<sup>4</sup>, R<sup>4</sup>O<sub>2</sub>C, R<sup>4</sup>C(=O)NH and
R^4S(=0)_k wherein k is 0,1 or 2
                  R^4C(=0), R^4S(=0)_k wherein k is 0, 1 or 2
R^{2}, R^{3} =
                  independently NH<sub>2</sub>
                           NHR<sup>1</sup>
                           NR^1R^5
                           OH,
                           OR<sup>4</sup>
                           R^4C(=O)(C_1-C_6)alkyl
```

 (C_2-C_{12}) alkynyl (C_3-C_{10}) cycloalkyl (C_1-C_6) alkyl

 (C_2-C_9) heterocycloalkyl (C_1-C_6) alkyl

 (C_6-C_{10}) aryl (C_1-C_6) alkyl

 (C_2-C_{12}) alkenyl

 (C_2-C_9) heteroaryl (C_1-C_6) alkyl,

wherein the alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl, and heteroaryl groups are optionally substituted by one to three halo, (C_1-C_4) alkoxy, hydroxy, nitro, cyano, $-C(=O)-OR^8$, -

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 $C(=O)N(H)R^8$, (C_6-C_{10}) aryl, (C_2-C_9) heteroaryl, $N*R^5R^6R^7$ wherein * is no or a positive charge, one or two of R^2 , R^3 can be a directly coupled therapeutic agent,

 $R^4 =$ independently,

 NH_2

NHR⁹

NR⁹R⁵

OH

OR9

(C₁-C₆)alkyl

(C₂-C₁₂)alkenyl

(C₂-C₁₂)alkynyl

 (C_3-C_{10}) cycloalkyl (C_1-C_6) alkyl

 (C_2-C_9) heterocycloalkyl (C_1-C_6) alkyl

 (C_6-C_{10}) aryl (C_1-C_6) alkyl

 (C_2-C_9) heteroaryl (C_1-C_6) alkyl,

wherein the alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl, and heteroaryl groups are optionally substituted by one to three halo, (C_1-C_4) alkoxy, hydroxy, nitro, cyano, R^8 , $-C(=O)-OR^8$, $-C(=O)N(H)R^8$, (C_6-C_{10}) aryl, (C_2-C_9) heteroaryl, $N*R^5R^6R^7$ wherein * is no or a positive charge, or a therapeutic agent,

 R^5 , R^6 = independently H

(C₁-C₆), optionally substituted by hydroxy

 (C_6-C_{10}) aryl

 (C_2-C_9) heteroaryl

 $R^7 =$ independently,

lone electron pair

 CH_3

 C_2H_5

 C_3H_7

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CH₂-C₆H₅

R⁸ = independently, therapeutic agent

 $R^9 =$ independently,

 (C_1-C_6) alkyl

(C₂-C₁₂)alkenyl

(C2-C12)alkynyl

 (C_3-C_{10}) cycloalkyl (C_1-C_6) alkyl

 (C_2-C_9) heterocycloalkyl (C_1-C_6) alkyl

 (C_6-C_{10}) aryl (C_1-C_6) alkyl or

 (C_2-C_9) heteroaryl (C_1-C_6) alkyl,

wherein the alkyl, alkenyl, alkynyl, cycloalkyl, heterocycloalkyl, aryl, and heteroaryl groups are optionally substituted by one to three halo, (C_1-C_4) alkoxy, hydroxy, nitro, cyano, R^8 , $-C(=O)-OR^8$, $-C(=O)N(H)R^8$, (C_6-C_{10}) aryl, (C_2-C_9) heteroaryl, $N^*R^5R^6R^7$ wherein * is no or a positive charge, or a therapeutic agent.

13. (Original) The compound of claim 1, wherein the linker is

(C₁-C₈)alkyl,

 (C_1-C_8) alkenyl,

 (C_1-C_8) alkynyl,

 (C_3-C_{10}) cycloalkyl,

 (C_6-C_{10}) aryl,

(C₂-C₉)heteroalkyl, or

 (C_2-C_9) heteroaryl,

wherein alkyl-, alkenyl, alkynyl, cycloalkyl, aryl or heteroaryl spacing elements are optionally substituted by (C₁-C₆)alkyl, 1-4 halogens, (C₁-C₄)alkoxy, (C₁-C₄)alkoxycarbonyl, hydroxy, amino, (C₁-C₄)alkylamino, (C₁-C₄)dialkylamino, (C₃-C₁₀)cycloalkyl, (C₁-C₆)alkylcarbonyloxy, (C₁-C₆)alkylcarbonylamido, (C₁-C₄)alkylamidocarbonyl, (C₁-

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C₄)dialkylamidocarbonyl, nitro, cyano, (C₁-C₄)alkylimino, mercapto or (C₁-

C₄)alkylmercapto.

14. (Withdrawn) The compound of claim 1, wherein the non-antibiotic therapeutic agent

is an anti-inflammatory agent.

15. (Withdrawn) The compound of claim 1, wherein the anti-inflammatory agent is a

protein kinase inhibitor, a protease inhibitor, or an HMGCoA reductase inhibitor.

16. (Withdrawn) The compound of claim 1, wherein the non-antibiotic therapeutic agent

is an anti-infectious agentation

17. (Withdrawn) The compound of claim 1, wherein the anti-infectious agent is a

protease inhibitor.

18. (Withdrawn) The compound of claim 1, wherein the non-antibiotic therapeutic agent

is an anti-cancer agent.

19. (Withdrawn) The compound of claim 1, wherein the non-antibiotic therapeutic agent

is a fluorescent molecule useful in diagnostic or exploratory applications.

20. (Withdrawn) The compound of claim 1, wherein the non-antibiotic therapeutic agent

is an immune-suppressant agent.

21. (Withdrawn) The compound of claim 1, wherein the immune-suppressant agent is an

analog of Vitamin D or a statin.

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22. (Withdrawn) The compound of claim 1, wherein the non-antibiotic therapeutic agent

is an agent for treating a hematopoietic disorder.

23. (Withdrawn) The compound of claim 1, wherein the non-antibiotic therapeutic agent

is an agent for treating a metabolic disease.

24. (Withdrawn) The compound of claim 1, wherein the metabolic disease is excessive

coagulation, or hypercholesteremia.

25. (Withdrawn) A pharmaceutical composition comprising a compound of claim 1 and a

1.1

pharmaceutically acceptable carrier.

26. (Withdrawn) A method of treating an inflammatory disorder, comprising

administering to a subject in need thereof an effective amount of a compound of claim 1, wherein

the non-antibiotic therapeutic agent is an anti-inflammatory agent.

27. (Withdrawn) A method of treating an infectious disease, comprising administering to

a subject in need thereof an effective amount of a compound of claim 1, wherein the non-antibiotic

therapeutic agent is an anti-infectious agent.

28. (Withdrawn) A method of treating cancer, comprising administering to a subject in

need thereof an effective amount of a compound of claim 1, wherein the non-antibiotic therapeutic

agent is an anti-cancer agent.

29. (Withdrawn) A method of treating allergy, comprising administering to a subject in

need thereof an effective amount of a compound of claim 1, wherein the non-antibiotic therapeutic

agent is an allergy-suppressive agent.

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3.3

30. (Withdrawn) A method of treating an immune disorder, comprising administering to a subject in need thereof an effective amount of a compound of claim 1, wherein the non-antibiotic therapeutic agent is an immune-suppressant agent.